

carboxyfluorescein (TET) or 6-carboxyfluorescein (FAM)). The primers, probes and conditions were as follows:

Forward Primer: 5'TCAATTGGACTGGTGCTC' (SEQ ID NO. 6)

Reverse Primer: 5'TCAGAACCATGAAACAGTATGATATTC' (SEQ ID NO. 19)

Probe Allele 1:

5'[TET]-ATCAAGTCCTTAATTAACACTGAAAATATATAAGCTCAGAT3' (SEQ ID NO. 8)

Probe Allele 2:

5'[FAM]-AATCAAGTCCTTAATTAAGACTGAAAATATATAAGCTCAGATT3' (SEQ ID NO. 9)

Conditions: PCRs were carried out in a final volume of 50 μ l using 1U Taq polymerase of 7.5 mM MgCl₂, 0.2 mM dNTP's, 1 μ M oligonucleotide primers, 10% glycerol, and a mixture of fluorogenic probes (30 to 40 nM).

Cycle: [95°C, 1 min.; 64°C, 1min.] x 41.

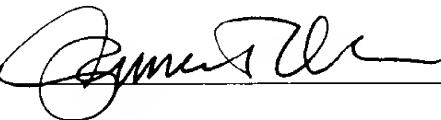
REMARKS

Applicants believe that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

Respectfully submitted,

Date January 3, 2003

By 

Foley Hoag LLP
155 Seaport Boulevard
Boston, Massachusetts 02210
Telephone: 617-832-1000
Facsimile: 617-832-7000

James T. Olesen, Ph. D.
Attorney for Applicant
Registration No. 46,967

Should additional fees be necessary in connection with the filing of this paper, or if a petition for extension of time is required for timely acceptance of same, the Commissioner is hereby authorized to charge Deposit Account No. 06-1448 for any such fees; and applicant(s) hereby petition for any needed extension of time.

MARKED UP VERSION ATTACHED TO AMENDMENT IN

SERIAL NO. 09/247,874

Marked up version of the paragraph starting at page 37, line 37 through page 38, line 19 is below:

2. PCR 5' Nuclease Method. Further screening was carried out using the TAQMAN®fluorogenic probe-based technique wherein a mismatched oligonucleotide probe spanning the allele is displaced, but a match oligonucleotide probe is digested by the 5' nuclease activity of the TAQMAN® polymerase. These two states can be detected using probes that are differentially labeled with fluorogenic labels (e.g. tetra-chloro-carboxyfluorescein (TET) or 6-carboxyfluorescein (FAM)). The primers, probes and conditions were as follows:

Forward Primer: 5'TCAATTGGACTGGTGTGCTC3' (SEQ ID No. 6)

Reverse Primer: 5'TCAGAACCATTAACAGTATGATATTTC3' (SEQ ID NO.

[7]19)

Probe Allele 1:

5'[TET]-ATCAAGTCCTTAATTAACACTGAAAATATAAGCTCAGAT3' (SEQ ID NO. 8)

Probe Allele 2:

5'[FAM]-AATCAAGTCCTTAATTAAGACTGAAAATATAAGCTCAGATT3' (SEQ ID NO. 9)

Conditions: PCRs were carried out in a final volume of 50µl using 1U Taq polymerase of 7.5 mM MgCl₂, 0.2 mM dNTP's, 1µM oligonucleotide primers, 10% glycerol, and a mixture of fluorogenic probes (30 to 40 nM).

Cycle: [95°C, 1 min.; 64°C, 1min.] x 41.